

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

A. Figure 1. "Alarm Setup Screen"



This screenshot allows you to set all **Alarm Set Points** for the Particulate, Iodine, and Nobel Gas Chambers.



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
USNUCLEARCORP
OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

B. Figure 2. "Iodine Calibration Screen"

CALIBRATION PROCEDURE (IODINE CHANNEL)

STEP 1: MAKE SURE THE SINGLE CHANNEL IS ADJUSTED PROPERLY FOR THE ISOTOPE.(SEE MANUAL) FIND BACKGROUND COUNTS.

SET THE B.G. COUNTING TIME ON THE B.G. COUNTING TIME KNOB. CLICK-HOLD AND DRAG THE KNOB INDICATOR TO THE DESIRED VALUE. START B.G. COUNTING BY SETTING B.G. COUNT START BUTTON TO "ON". CLICK-HOLD THE MOUSE POINTER ON THE BUTTON.

STEP 2: FIND SOURCE COUNTS B.G.COUNTS/MIN

PULL OUT THE IODINE FILTER CARTRIDGE HOLDER. REMOVE THE FILTER CARTRIDGE. INSTALL THE CAL SOURCE WITH THE SOURCE HOLDER INSTEAD OF FILTER CARTRIDGE, RE-INSERT THE FILTER CARTRIDGE HOLDER ALL THE WAY INSIDE THE BIG SHIELD UNTIL IT STOPS. SET THE CAL STRENGTH ON THE SLIDER BELOW BY PRESSING THE SHIFT AND DOUBLE CLICKING THE MOUSE POINTER ON THE SLIDER. A KEYPAD WILL APPEAR ON THE SCREEN. CLICK ON THE KEYPAD DIGITS TO DISPLAY THE NUMBER AND PRESS ENTER TO ACCEPT IT. SOURCE STRENGTH SHOULD BE AT LEAST 10,000Bq. THEN START SOURCE COUNTING BY SETTING SOURCE COUNT START BUTTON TO "ON". CLICK-HOLD THE MOUSE POINTER ON THE BUTTON. THE PROGRAM LOOKS AT 20 SAMPLES OF 30 SEC. COUNTS AND PERFORMS A STATISTICAL TEST. IF IT PASSES, IT CALCULATES THE CONVERSION FACTOR. (COUNTS/Bq) IS STORED IN A FILE TO BE USED IN THE MAIN PROGRAM. THIS TAKES ABOUT 10 MIN. IF IT FAILS, THE PROGRAM CONTINUES TO CHECK CONSECUTIVE 20 SAMPLES FOR ANOTHER 10 MIN. IF THE TEST PASSES THE PROGRAM LOGS IN THE CONVERSION FACTOR. OTHERWISE THE PROGRAM STOPS AFTER 22 MIN. WITHOUT STORING THE CONVERSION FACTOR. THE PROBE AND THE ELECTRONIC MODULE HAS TO BE CHECKED OUT.

OFF
SOURCE COUNT START BUTTON

PASSED STATISTICAL TEST FAILED

Chi Square # TIME ELAPSED TIME 00:00:08

CALSOURCE STRENGTH IN Bq Bq: I-EFF_cps/Bq 37000.00

This screenshot Displays and Finds both **Background** and **Source Counts**. It is also able to Measure and set Parameters.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
 USNUCLEARCORP
OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

C. Figure 3. "Nobel Gas Calibration" Screen

This screenshot displays **Background Counts** found through the **Nobel Gas Chamber**. **Background and Source Count** time is adjusted here as well.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
 USNUCLEARCORP
OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

D. Figure 4. "Particulate Calibration" Screen

**CALIBRATION PROCEDURE
(PARTICULATE CHANNEL)**

STEP 1: FIND BACKGROUND COUNTS
SET THE DESIRED B.G. COUNTING TIME.
B.G. COUNTING TIME CAN BE SET BY MOVING THE SLIDER OR BY HOLDING "SHIFT" AND DOUBLE CLICK ON THE KNOB OR SLIDE. A KEYPAD DISPLAY WILL APPEAR ON THE SCREEN. CLICK ON THE KEYPAD DIGITS TO SET THE NUMBER AND PRESS ENTER TO ACCEPT IT.

START B.G. COUNTING BY SETTING B.G. COUNT START BUTTON TO "ON". CLICK AND HOLD ON THE BUTTON.

B.G. COUNTING DONE 1MIN. B.G. COUNTS

STEP 2: FIND SOURCE COUNTS
PULL OUT THE PARTICULATE LEAD FILTER PAPER HOLDER. REMOVE THE FILTER PAPER. INSTALL THE CAL-SOURCE WITH THE SOURCE HOLDER INSTEAD OF FILTER PAPER. REINSERT THE FILTER HOLDER ALL THE WAY INSIDE THE BIG SHIELD UNTIL IT STOPS.

SET THE CAL SOURCE STRENGTH ON THE SLIDER BELOW BY PRESSING THE SHIFT AND DOUBLE CLICKING ON THE SLIDER. A KEYPAD WILL APPEAR ON THE SCREEN. CLICK ON THE KEYPAD DIGITS TO DISPLAY THE NUMBER AND PRESS ENTER TO ACCEPT IT. SOURCE STRENGTH SHOULD BE AT LEAST 10,000Bq.

THEN START SOURCE COUNTING BY SETTING SOURCE COUNT BUTTON TO "ON". CLICK AND HOLD ON THE BUTTON.

OFF
SOURCE COUNT START BOTTON

**PASSED
SATISTICAL TEST
FAILED**

0 50000
CAL. SOURCE STRENGTH IN Bq

Bq: 37000.00
P-EFF_CPS/Bq

Chi Squared # Time Elapsed Time 00:00:09


This Screenshot displays **Background and Source** counts Found through the particulate Chamber. **Background and Source Counts** are adjusted through this screen.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

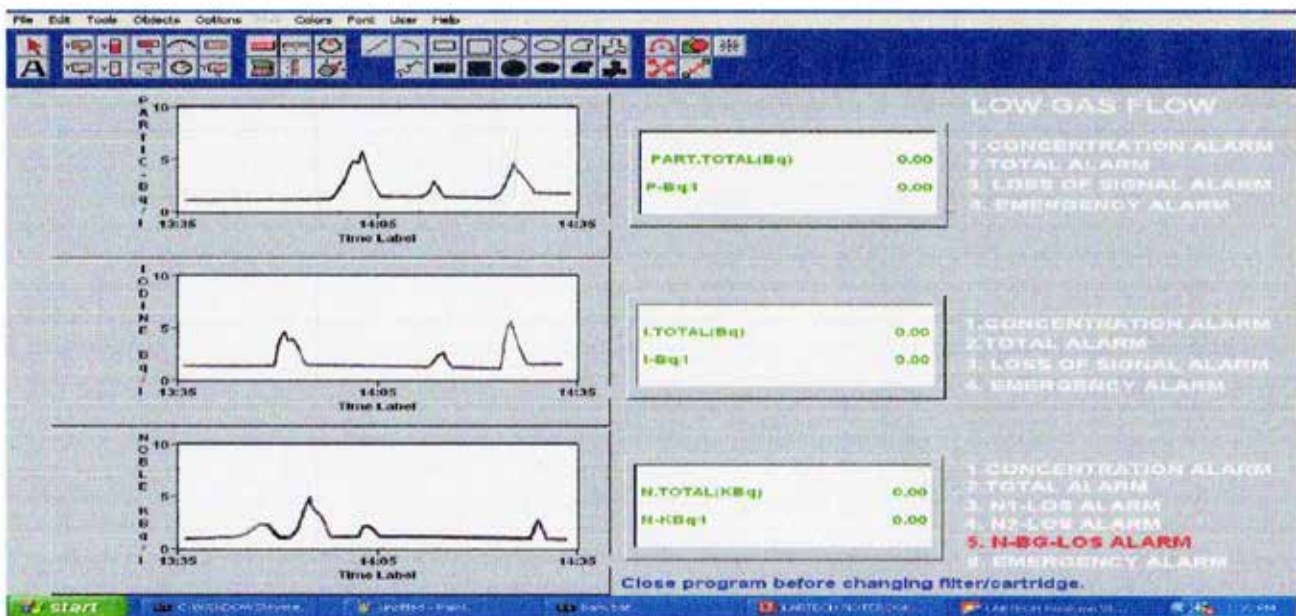
DIVISIONS OF
 USNUCLEARCORP
OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

E. "Check Source" screen Not Shown

F. "FM Graphs" screen Not Shown This creates Trend Graphs of most recent 7 Day, 30 Day and 1 Yr Readings

G. "InstaCal Start Up" screen Not Shown



This Screenshot displays the **Particulate, Iodine, and Nobel Gas Chamber** system main functions:

1. Realtime Airborne Concentration – Three Channels
2. Total Daily Release – All Three Channels
3. All Data Archived to Disk every 2 minutes



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF

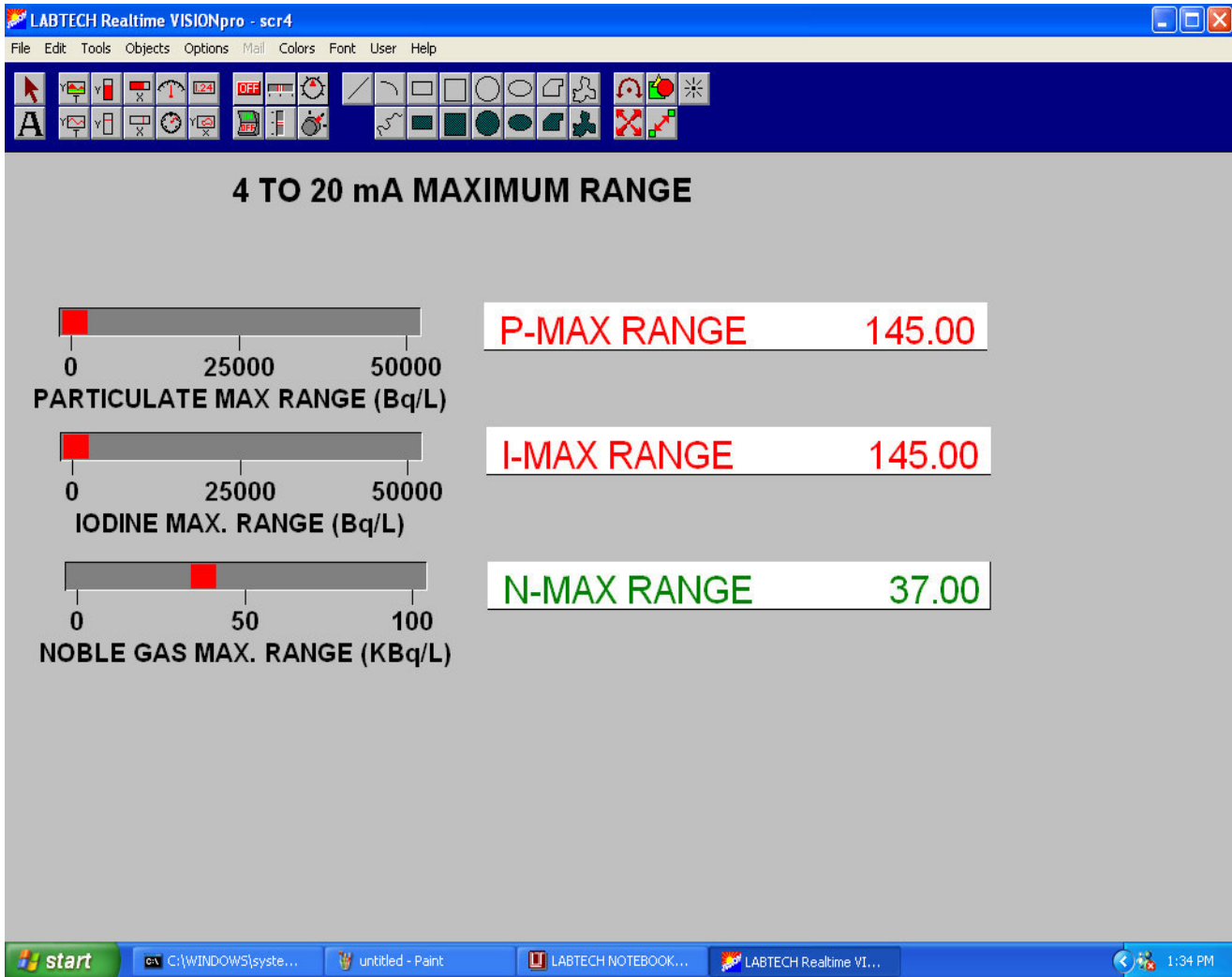


USNUCLEARCORP

OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

I. Figure 5. 4 to 20 mA Setup Screen



This screenshot displays the **4 to 20 mA setup** for the **Particulate, Iodine, and Nobel Gas Chambers**. The maximum ranges for each chamber is adjustable as shown above.


J. "Batch File" Not Shown: Controls Daily 24 Hr. midnight turn over Reset of data and daily release Totals.



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

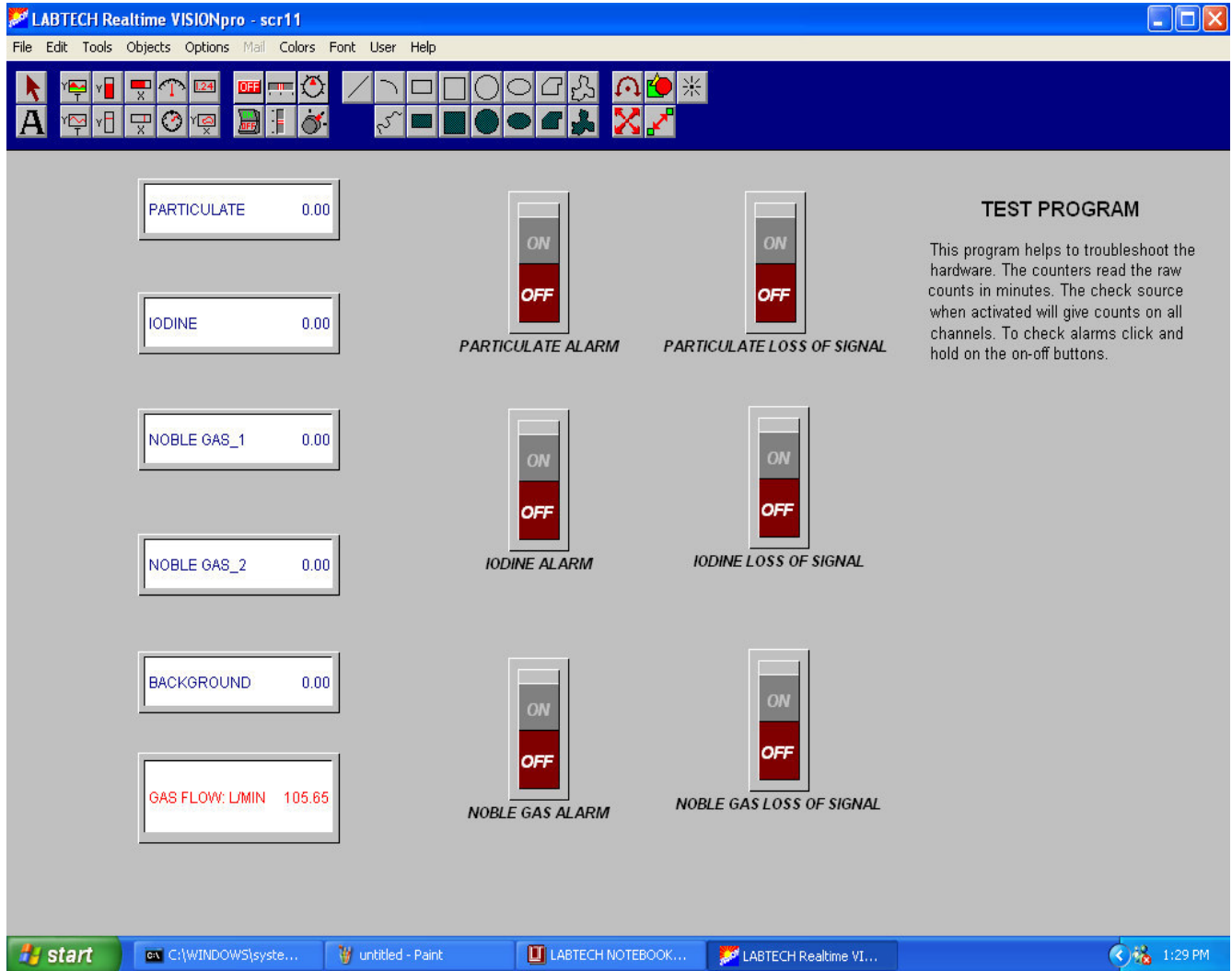
7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
 USNUCLEARCORP
OTCQB-UCLE

Air Monitor - Gas, Gross Beta-Gamma Particulate, and Iodine Program Screenshots

K. Figure 6. "Test" Screen




This Screenshot displays the various sections of the system that are tested for troubleshooting or simply confirm they are working properly. They can be activated singly or all together for testing.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
 USNUCLEARCORP
OTCQB-UCLE